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SID 62-71

MOCKUP NUMBER 7, COMPLETE SERVICE MODULE
SPECIFICATION
PROJECT APOLLO SPACECRAFT
(Unclassified)



28 February 1962

4.5.2.7

Approved by

J. W. Palip Vice President and Apollo Program Manager

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1. SCOPE

1.1 Scope. This specification covers the requirements for a complete Service Module Mockup for the Project Apollo Spacecraft.

2. APPLICABLE DOCUMENTS

2.1 General. - The following documents shall form a part of this specification.

Government Documents.-

Manuals

ARDCM-80-1, Volume 1

Handbook of Instructions for Aircraft Designers

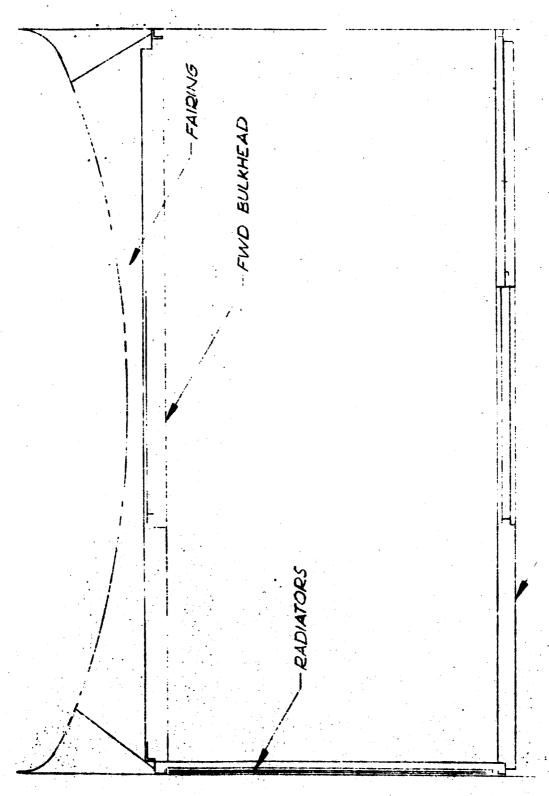
3. REQUIREMENTS

- 3.1 Mockup Configuration. The Service Module Mockup shall consist of a structure to house simulated propulsion systems, electrical equipment, electronic equipment, antennae, and mechanical and electrical disconnects. The outline of the module shall be as shown on figure 1 of this specification.
- 3.2 Construction. Materials and processes used in the construction of mockup shall provide an inexpensive mockup of the Service Module. Materials used shall support the required installations and shall withstand handling and transportation. Assemblies, parts and components of the mockup shall be either rejected items of equipment, prototypes or reasonable facsimiles, fabricated to the size and shape of the actual equipment. ARDCM-80-1, Volume 1, shall be used for guidance and reference material in the design and construction of the mockup. The mockup shall have the outer skin simulated as required.





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- REAR BULKHEAD

Figure 1. Service Module



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- 3.3 Performance. The mockup shall provide a means to evaluate the space requirements and compatibility of the equipment to be used in the Service Module. The mockup shall also provide a means for engineering evaluation of new and proposed design changes. The mockup shall be required to accommodate ground handling equipment.
- 4. QUALITY ASSURANCE PROVISIONS (NOT APPLICABLE)

5. PREPARATION FOR DELIVERY

5.1 Mockup Delivery. - Not applicable. The mockup shall be used at the contractor's facility.

6. NOTES

6.1 Intended Use. - The mockup shall be used to aid S&ID engineering design evaluation.



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Appendix I-A

Contractor-Furnished Equipment, Contractor-Installed

Part No.											·	
Description	Stabilization & Control System	Communication System	Antenna System	Guidance System	Abort System	Instrumentation System	Vernier Propulsion System	Mission Propulsion System	Reaction Control System	Electrical Power System	Mechanical System a. interstage disconnects b. umbilicals	Environmental Control System
Quantity	Ţ											
Item No.	-	7	8	4	5	9	7	œ	6	10	11	12

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